

AIRTOXIC # \_\_\_\_\_  
Date : \_\_\_\_\_

INSPECTION : \_\_\_\_\_

## airTOXIC CHECK LIST

	INSTRUCTIONS	MEASURED VALUES
<b>I. GENERAL INSPECTION</b>		
<b>LEDS of the analyser (Running/OK)</b>	RUN / OK (+ Sampling)	
<b>Nitrogen</b>	3 bars	
<b>Zero Air</b>	4 bars	
<b>Vacuum of sampling pump</b>	< -700 hPa under atmospheric pressure (option with display on vistachrom screen)	
<b>Tubing /links / Cables</b>	Check for leaks / Connections	
<b>II. ANALYZER PARAMETERS</b>		
<b>Check error on VistaCHROM screen</b>		
<b>Difference between Ambient Pressure and Critical pressure (hPa)</b>	10 hPa < Value < 50 hPa (in sampling)	
<b>Sampling Flow</b>	10 mL/min < Value < 20 mL/min with 50 µm critical orifice. It must be stable	
<b>Head Column Pressure</b>	See the Quality Control report (it must be stable) ≈ 0,8 bar (± 0,2 bar)	
<b>Temperature of oven (follow the ramp temperature)</b>	Reach maximum and minimum temperature (see quality control document)	
<b>Trap temperature during desorption</b>	380°C (check if it's hot during desorption)	
<b>Temperature of calibration oven</b>	40°C (see quality control document)	
<b>Permanent flow and total dilution flow for analyzer with internal permeation oven</b>	Around 50 ml/min for permanent flow and around 250 ml/min for total dilution flow (check the values on the quality control document)	
<b>III. PID DETECTOR</b>		
<b>PID Temperature</b>	150°C (stable)	
<b>Air flow on PID</b>	2.5 to 4 mL/min	
<b>UV Lamp</b>	Check if it switches on (during acquisition)	
<b>IV. SIGNAL AND ANALYSIS</b>		
<b>Base line signal</b>	Between 1000 and 4000 (stable on last day data) in amplification 2	
<b>Noise or artefacts</b>	Look on last day data (zoom on baseline)	
<b>Look of peaks</b>	Fine and with a good shape as in Quality control	
<b>Retention times stability and compounds identification</b>	Check stability and identification	
<b>Integration</b>	Look on last day data (base of peaks)	
<b>V. RESULTS</b>		
<b>Base sensitivity</b>	Follow the drift of the Base sensitivity thanks to calibration chromatograms (follow "easy calib" document).	
<b>Autocalibration</b>	Verify low alarm and high alarm	
<b>Concentration of standard</b>	Quality control document (Permeation rate/ dilution flow) - Must be updated with new tube	
<b>Units results</b>	ppb or µg/m <sup>3</sup> (what is needed) - Be careful with modbus or 4/20: data transfert	

Preventive maintenance	Date of last preventive maintenance
1 year	
2 years	
3 years	
5 years	